SIEMENS

product brand name

Data sheet 3RW5235-6TC15

SIRIUS



SIRIUS soft starter 200-600 V 143 A, 110-250 V AC Screw terminals Thermistor input

product brand name	SINIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
 of standard HMI module usable 	3RW5980-0HS00
 of high feature HMI module usable 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 of circuit breaker usable at 400 V 	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3244-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1227-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3334-0B; Type of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
• is supported HMI-Standard	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	
• for main current circuit	100 ms
• for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2

impulse voltage rated value	6 kV
impulse voltage rated value	
blocking voltage of the thyristor maximum service factor	1 800 V 1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	000 1/
between main and auxiliary circuit	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	
ramp-up (soft starting)	Yes
ramp-down (soft stop)	Yes
Soft Torque	Yes
 adjustable current limitation 	Yes
pump ramp down	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
• inside-delta circuit	Yes
auto-RESET	Yes
• manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
• communication function	Yes
 operating measured value display 	Yes; Only in conjunction with special accessories
 error logbook 	Yes; Only in conjunction with special accessories
 via software parameterizable 	No
 via software configurable 	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
• firmware update	Yes
 removable terminal for control circuit 	Yes
torque control	No
analog output	No
Power Electronics	
operational current	
• at 40 °C rated value	143 A
• at 50 °C rated value	128 A
at 60 °C rated value	118 A
operational current at inside-delta circuit	
at 40 °C rated value	248 A
• at 50 °C rated value	222 A
• at 60 °C rated value	204 A
operating voltage	
• rated value	200 600 V
at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
at 230 V at 40 °C rated value	37 kW
at 230 V at inside-delta circuit at 40 °C rated value	75 kW
• at 400 V at 40 °C rated value	75 kW
at 400 V at 400 O rated Value at 400 V at inside-delta circuit at 40 °C rated value	132 kW
• at 500 V at 40 °C rated value	90 kW
- at ooo v at 10 O lated value	
• at 500 V at inside-delta circuit at 40 °C rated value	160 kW
at 500 V at inside-delta circuit at 40 °C rated value Operating frequency 1 rated value	160 kW 50 Hz

relative negative tolerance of the operating frequency	-10 % 10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	00 A
at rotary coding switch on switch position 1	68 A
at rotary coding switch on switch position 2	73 A
at rotary coding switch on switch position 3	78 A
at rotary coding switch on switch position 4	83 A
 at rotary coding switch on switch position 5 	88 A
 at rotary coding switch on switch position 6 	93 A
 at rotary coding switch on switch position 7 	98 A
 at rotary coding switch on switch position 8 	103 A
 at rotary coding switch on switch position 9 	108 A
 at rotary coding switch on switch position 10 	113 A
 at rotary coding switch on switch position 11 	118 A
 at rotary coding switch on switch position 12 	123 A
 at rotary coding switch on switch position 13 	128 A
 at rotary coding switch on switch position 14 	133 A
 at rotary coding switch on switch position 15 	138 A
 at rotary coding switch on switch position 16 	143 A
• minimum	68 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	118 A
 for inside-delta circuit at rotary coding switch on switch position 2 	126 A
 for inside-delta circuit at rotary coding switch on switch position 3 	135 A
 for inside-delta circuit at rotary coding switch on switch position 4 	144 A
for inside-delta circuit at rotary coding switch on switch position 5	152 A
for inside-delta circuit at rotary coding switch on switch position 6 for inside delta circuit at rotary coding switch on switch position for inside delta circuit at rotary coding switch on switch position.	161 A
for inside-delta circuit at rotary coding switch on switch position 7 for inside delta circuit at rotary coding switch on swit	170 A 178 A
 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on switch 	187 A
position 9 • for inside-delta circuit at rotary coding switch on switch	196 A
position 10 • for inside-delta circuit at rotary coding switch on switch	204 A
position 11 • for inside-delta circuit at rotary coding switch on switch	213 A
position 12 • for inside-delta circuit at rotary coding switch on switch	222 A
position 13 • for inside-delta circuit at rotary coding switch on switch	230 A
position 14 • for inside-delta circuit at rotary coding switch on switch	239 A
 position 15 for inside-delta circuit at rotary coding switch on switch 	248 A
position 16	440.4
at inside-delta circuit minimum	118 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	55 W
at 50 °C after startup	50 W
at 60 °C after startup	47 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	2 127 W
 at 50 °C during startup 	1 807 W
at 60 °C during startup	1 605 W
ontrol circuit/ Control	

control supply voltage at AC		
a + 160 Hz	control supply voltage at AC	
Include negative tolerance of the control supply voltage at A2 at 50 Hz.	● at 50 Hz	110 250 V
AC at 60 Hz relative hostinate of the control supply voltage at AC at 60 Hz relative hostinate of the control supply voltage at AC at 60 Hz relative hostinate of the control supply voltage at AC at 60 Hz relative hostinate of the control supply voltage at AC at 60 Hz relative hostinate of the control supply voltage at AC at 60 Hz relative hostinate of the control supply voltage at 60 Hz relative hostinate of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency control supply current in standby mode rated value provided to supply current in standby mode rated value provided to supply current in standby mode rated value provided to supply current of the control supply voltage reasonam unush current by closing the bypass contacts maximum 2.5 A 2.2 ms voltage of the overvoltage protection design of hort-circuit protection for control circuit 4. A gC tase (quer t AA), 6.4 quick-acting fuse (quer t AA), 1.5 mol part of supply voltage reasonam number of digital inputs **A C-15 at 250 V rated value **A C-15 at 250 V rated value **A L-15 at	● at 60 Hz	110 250 V
AC at 60 ftz relative negative tolerance of the control supply voltage at AC at 60 ftz relative positive tolerance of the control supply voltage at AC at 60 ftz relative positive tolerance of the control supply voltage control supply current in standby mode rated value bolding current in bypass operation rated value classing of the overvoltage protection design of the overvoltage protection design of short-circuit protection for control circuit betaeker (toler 601 A). 68 ministure circuit breaker (toler 500 A). 16 ministure circuit breaker (toler 500 A). 18 ministure circuit brea		-15 %
AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value Abdiling current in bypass operation rated value Abdiling current peak at application of control supply voltage duration of insular current peak at application of control supply voltage duration of insular current peak at application of control supply voltage design of hort-circuit protection for control circuit breaker (four 500 A), is not part of recovery of supply voltage number of digital inputs number of digital outputs a not particular current peak relative to the relative to the relative relative four four to the relative relative four four four four four relative four four four four four four four four		10 %
Control supply voltage frequency 50 _ 0.0 Hz relative negative tolerance of the control supply voltage frequency		-15 %
relative negative tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency control supply current in standby mode rated value holding current in bypass operation rated value insush current to jooling the bypass contacts maximum insush current peak at application of control supply voltage maximum duration of insush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit design of short-circuit protection for control circuit speed of supply inpute Outputs inpute Outp		10 %
frequency requency re	control supply voltage frequency	50 60 Hz
frequency control supply current in standby mode rated value holding current by plosing the bypass operation rated value inrush current by closing the bypass contacts maximum 12.5 A Inrush current peak at application of control supply voltage maximum design of inrush current peak at application of control supply voltage maximum design of short-circuit protection for control circuit design of short-circuit protection for control circuit the AgG fuse (cuert kA), 6 A quick-acting fuse (fourt kA), C1 ministrure circuit breaker (cue 500 A), 0.6		-10 %
Noticing current in bypass operation rated value 75 mA 2.5 A		10 %
Inrush current by closing the bypass contacts maximum inrush current pack at application of control supply voltage maximum curation of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit therefore the current peak at application of control circuit design of short-circuit protection for control circuit therefore the current peak at application of control circuit therefore the current peak at application of control circuit therefore the current peak at application of control circuit design of short-circuit protection for control circuit therefore the current peak at application of control circuit therefore the current peak at application of control supply Inputs/ Outputs Inputs/ Outputs/ Outputs Inputs/ Outputs/ Outputs/ Outputs/ Outputs Inputs/ Outputs/ Ou	control supply current in standby mode rated value	30 mA
mush current peak at application of control supply voltage maximum duration of firush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit by a (subject (cue 600 A), 0.6 miniature circuit breaker ((cue 300 A); Is not part of scope of supply number of digital inputs number of digital inputs number of digital outputs on parameterizable 2 commally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs o at AC-15 at 250 V rated value of at AC-15 at 250 V rated value of at Control at 24 V rated value of control	holding current in bypass operation rated value	75 mA
duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit breaker (feu= 600 A), Ge miniature circuit breaker (feu= 300 A); Is not part of supply Inputs/ Outputs Inputs/ Outputs Inumber of digital inputs Inumber of digital inputs Inumber of digital outputs Inumber of analog outputs Inumber of analog outputs Intelligital output version Inumber of analog outputs Intelligital output version Inumber of analog outputs Intelligital output version Intell	inrush current by closing the bypass contacts maximum	2.5 A
voltage design of the overvoltage protection design of the overvoltage protection design of the volvervoltage protection for control circuit breater (leu= 600 A), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breater (leu= 600 A), 6 miniature circuit breater (leu= 300 A); Is not part of sospe of supply Inputs/ Outputs number of digital inputs 1 number of digital outputs 3 on to parameterizable 2 citigital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 0 switching capacity current of the relay outputs 0 at CA-15 at 250 V rated value 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A		12.2 A
design of short-circuit protection for control circuit A A gG fuse (Icu= 1 kA), 6 A quick-acting fuse (Icu= 1 kA), C1 miniature circuit breaker (Icu= 300 A); is not part of scope of supply		2.2 ms
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required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side • at the side • formections/ Terminals type of electrical connection • for control circuit • for control circuit • for connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	width	185 mm
forwards backwards o mm upwards downwards at the side for main current circuit for control circuit with of connection bar maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum for DIN cable lug for main contacts finely stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	depth	203 mm
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o downwards o at the side 5 mm weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit • for connection bar maximum width of connection bar maximum • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections **To mm* **To	• backwards	0 mm
at the side beight without packaging connections/ Terminals type of electrical connection of or main current circuit of or control circuit width of connection bar maximum wire length for thermistor connection owith conductor cross-section = 0.5 mm² maximum owith conductor cross-section = 1.5 mm² maximum owith conductor cross-section = 2.5 mm² maximum owith conductor cross-sections of connectable conductor cross-sections of or DIN cable lug for main contacts stranded of connectable conductor cross-sections type of connectable conductor cross-sections type of connectable conductor cross-sections	• upwards	100 mm
weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum 25 mm wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • mith conductor cross-section = 2.5 mm² maximum • with conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	downwards	75 mm
type of electrical connection • for main current circuit • for control circuit width of connection bar maximum vire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • or DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections type of connectable conductor cross-sections	• downwards	
type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections		5 mm
 for main current circuit for control circuit screw-type terminals width of connection bar maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections 	at the side	
• for control circuit	at the side weight without packaging	
width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections type of connectable conductor cross-sections	at the side weight without packaging Connections/ Terminals	
width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections type of connectable conductor cross-sections	at the side weight without packaging Connections/ Terminals type of electrical connection	6.6 kg
wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded 2x (16 95 mm²) type of connectable conductor cross-sections	at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit	6.6 kg busbar connection
 with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded 2x (16 95 mm²) for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections 	at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit	6.6 kg busbar connection screw-type terminals
 with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections 	at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum	6.6 kg busbar connection screw-type terminals
 with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded 2x (16 95 mm²) 2x (25 120 mm²) type of connectable conductor cross-sections 	at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connection bar maximum wire length for thermistor connection	busbar connection screw-type terminals 25 mm
type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded 2x (16 95 mm²) 2x (25 120 mm²) type of connectable conductor cross-sections	at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum	busbar connection screw-type terminals 25 mm
 for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded 2x (16 95 mm²) type of connectable conductor cross-sections 	at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connection bar maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum	busbar connection screw-type terminals 25 mm 50 m 150 m
• for DIN cable lug for main contacts finely stranded 2x (25 120 mm²) type of connectable conductor cross-sections	● at the side weight without packaging Connections/ Terminals type of electrical connection ● for main current circuit ● for control circuit width of connection bar maximum wire length for thermistor connection ● with conductor cross-section = 0.5 mm² maximum ● with conductor cross-section = 1.5 mm² maximum ● with conductor cross-section = 2.5 mm² maximum	busbar connection screw-type terminals 25 mm 50 m 150 m
type of connectable conductor cross-sections	● at the side weight without packaging Connections/ Terminals type of electrical connection ● for main current circuit ● for control circuit width of connection bar maximum wire length for thermistor connection ● with conductor cross-section = 0.5 mm² maximum ● with conductor cross-section = 1.5 mm² maximum ● with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections	busbar connection screw-type terminals 25 mm 50 m 150 m 250 m
	at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded	busbar connection screw-type terminals 25 mm 50 m 150 m 250 m
• for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	● at the side weight without packaging Connections/ Terminals type of electrical connection ● for main current circuit ● for control circuit width of connection bar maximum wire length for thermistor connection ● with conductor cross-section = 0.5 mm² maximum ● with conductor cross-section = 1.5 mm² maximum ● with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections ● for DIN cable lug for main contacts stranded ● for DIN cable lug for main contacts finely stranded	busbar connection screw-type terminals 25 mm 50 m 150 m 250 m
	● at the side weight without packaging Connections/ Terminals type of electrical connection ● for main current circuit ● for control circuit width of connection bar maximum wire length for thermistor connection ● with conductor cross-section = 0.5 mm² maximum ● with conductor cross-section = 1.5 mm² maximum ● with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections ● for DIN cable lug for main contacts stranded ● for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	busbar connection screw-type terminals 25 mm 50 m 150 m 250 m 2x (16 95 mm²) 2x (25 120 mm²)

• for control circuit finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
for AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	
 between soft starter and motor maximum 	800 m
at the digital inputs at AC maximum	100 m
tightening torque	
 for main contacts with screw-type terminals 	10 14 N·m
for auxiliary and control contacts with screw-type	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	00 404 lbf :-
for main contacts with screw-type terminals	89 124 lbf-in
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2
	(sand must not get into the devices), 3M6
 during storage according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
PROFINET standard	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
PROFIBUS UL/CSA ratings	Yes
	Yes
UL/CSA ratings	Yes
UL/CSA ratings manufacturer's article number	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according	
UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-	Siemens type: 3VA52, max. 250 A; lq = 10 kA
■ UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL — usable for High Faults at 460/480 V at inside-delta	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
■ UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V at insidedelta circuit according to UL usable for High Faults at 460/480 V at insidedelta circuit according to UL	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
■ Of circuit breaker ■ of circuit breaker ■ usable for Standard Faults at 460/480 V according to UL ■ usable for High Faults at 460/480 V according to UL ■ usable for Standard Faults at 460/480 V at insidedelta circuit according to UL ■ usable for High Faults at 460/480 V at insidedelta circuit according to UL ■ usable for High Faults at 460/480 V at inside-delta circuit according to UL ■ usable for Standard Faults at 575/600 V according to UL	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA
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manufacturer's article number	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Type: Class RK5 / K5, max. 350 A; Iq = 10 kA Type: Class J / L, max. 350 A; Iq = 100 kA
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manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL — usable for High Faults at 460/480 V at insidedelta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V at insidedelta circuit according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at insidedelta circuit up to 575/600 V according to UL — usable for Standard Faults at insidedelta circuit up to 575/600 V according to UL — usable for High Faults at insidedelta circuit up to 575/600 V according to UL — usable for High Faults at insidedelta circuit up to 575/600 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 575/600 V at 50 °C rated value	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Type: Class RK5 / K5, max. 350 A; Iq = 10 kA Type: Class J / L, max. 350 A; Iq = 10 kA Type: Class RK5 / K5, max. 350 A; Iq = 10 kA Type: Class J / L, max. 350 A; Iq = 100 kA 40 hp 40 hp 100 hp 125 hp
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contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
electromagnetic compatibility	in accordance with IEC 60947-4-2
Certificates/ approvals	

General Product Approval





Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping



Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5235-6TC15

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5235-6TC15}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW5235-6TC15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5235-6TC15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5235-6TC15/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5235-6TC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917







